

Robertson County Schools

High School Catalog of Courses



East Robertson High School

Greenbrier High School

Innovation Academy of Robertson County

Jo Byrns High School

Robertson County Phoenix Academy

Robertson County Virtual School

Springfield High School

White House Heritage High School

Graduation Requirements for Robertson County Students

English	4 Credits
Mathematics <i>(Algebra I, Algebra II, Geometry, and a Senior math or STEM math course)</i>	4 Credits
Science <i>(Biology I, Chemistry or Physics, additional laboratory science)</i>	3 Credits
Social Studies <i>(U. S. History and Geography, World History and Geography, Economics and Government –one-half (.5) credit each)</i>	3 Credits
Wellness / Physical Education	1.5 Credits
Computer Science <i>(beginning with the 2024-25 Freshman class)</i>	1 Credit
Personal Finance	0.5 Credit
Foreign Language <i>(two (2) units of same language)</i>	2 Credits
Fine Art	1 Credit
Program of Study	3 Credits
Electives (minimum)	3 Credits

TOTAL: 26 Credits

--Beginning in January 2017, all students seeking a regular diploma must take a civics test and score at least 60% as a requirement to graduate.

--All students must take the ACT as a graduation requirement.

CLASSIFICATION OF STUDENTS

Students are classified based on their years of attendance in high school.

Freshman - A student who has satisfactorily completed the eighth grade.

Sophomore- A student in his/her second year of high school.

Junior- A student in his/her third year of high school.

Senior- A student in his/her fourth year of high school.

Rising seniors must be enrolled in all courses needed to meet graduation requirements. School counselors are available to assist students.

LANGUAGE ARTS

Four (4) credits in English are required for graduation: English I, English II, English III, and English IV.

Tier III ELA Intervention – G01H19 1 credit Prerequisite: Determined by school data team.

Course Description: Students may earn elective credit in this course designed to improve students' decoding, fluency, vocabulary, reading comprehension, and writing skills through individualized learning pathways. Students may qualify for this course based on achievement data, universal screening results, and/or reading fluency or writing test results.

English I- G01H09 1 credit

Course Description: This course begins with a grammar review emphasizing mechanics and usage. It addresses four strands of literacy: Reading, both literary and informational texts, writing, including research, Listening and Speaking, and Language. Students read a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on providing relevant and ample evidence to support a claim. Paragraph development will involve developing topic sentences into short paragraphs using formula writing. Students will be introduced to the elements of fiction in a short story unit that will prepare them to identify the same elements in subsequent works of literature. An informative research project will introduce the fundamentals of research. A poetry unit will introduce figurative language as well as other common poetic devices. Weekly vocabulary will emphasize identifying word parts and using context clues.

English I Advanced- G01H09A 1 credit

Course Description: English I Advanced is an option for students with qualifying scores on TN READY. This course teaches all topics of English I at a significantly faster pace, in greater depth, and with supplemental topics. Writing is heavily emphasized along with citing strong textual evidence from various sources. Students are expected to research topics and further develop strong writing skills. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

English II-G01H10 1 credit

Course Description: This course is designed to develop students' proficiency in writing paragraphs and developing essays. It addresses four strands of literacy: Reading, both literary and informational texts, writing, including research, Listening and Speaking, and Language. Students complete a survey of World Literature, including a variety of books, fiction and nonfiction, short stories, poetry, drama, literary nonfiction and informational texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on providing relevant and ample evidence to support a claim while using increasingly sophisticated structures. Appropriate vocabulary assignments will be included. Literature assignments will include a variety of short stories and novels will be read.

English II Advanced- G01H10A 1 credit

Course Description: English II Advanced is an option for students who successfully complete English I Advanced. This course teaches all topics of English II at a significantly faster pace, in greater depth, and with supplemental topics. Writing is heavily emphasized along with citing strong textual evidence from various sources. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

English III – G01H11 1 credit

Course Description: This course continues to develop skills in the four strands of Reading, Writing, Listening and Speaking, and Language through a survey of American Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of American literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing involves the modes of narrative, informative/explanatory, and argument with an emphasis on the analysis of text. Newspapers may be used to stimulate an interest in current events.

English IV – G01H13 1 credit

Course Description: English IV continues to develop and refine skills in Reading, Writing, Listening and Speaking, and Language through a survey of British Literature. Students are expected to read and analyze complex expository works of literary nonfiction, as well as a wide spectrum of various genres of British literature, in order to produce ample evidence to support inferences. Students will determine themes across multiple texts and express their thinking in writing and speaking supported by ample and relevant evidence from the texts. Writing will emphasize analysis of text, including research with appropriate citations. Periodicals and outside resources will be used.

Creative Writing—G01H16 1 credit

Course Description: Creative Writing will focus on the imaginative aspects of writing fiction, poetry, and literary nonfiction. Students will engage in lectures, discussion, workshops, and feedback sessions to improve their own craft, and they will study the works of masters in various genres to explore possibilities and examine others' creative endeavors.

Genre Literature—G01H01 1 credit

Course Description: Genre Literature allows the exploration of the intricate aspects that make a particular literary genre, thematic elements of a literary genre, and various styles and plot elements of a literary genre. The genre may vary by school or course. Examples include Contemporary, Gothic, & Women's Literature.

Journalism – G01H15 1 credit Prerequisite: Teacher Approval

Course Description: This class involves a selected number of students who will produce the school yearbook. Basic layout, body copy, and print design will be taught. (Journalism I-IV)

MATHEMATICS

Four (4) credits in mathematics are required for graduation: Algebra I, Geometry, Algebra II, and a fourth level or STEM mathematics course.

Tier II/III Math Intervention – G02H43 1 credit Prerequisite: Determined by school data team.

Course Description: This skills-based elective course is designed to support students' learning of the mathematical concepts and skills necessary to be successful in high school mathematics courses.

Algebra I – G02H00 1 credit

Course Description: - This semester course includes properties of the real number system, linear and quadratic systems, inequalities, operations on real numbers and polynomials, exponents and radicals. Students learn the language of algebra and practice the application of algebraic concepts to real world problems. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Algebra I Advanced – G02H00A 1 credit

Course Description: Advanced Algebra I is a more rigorous math course that sets the foundation for the advanced math courses. It covers the topics of Algebra I in greater depth and at a faster pace, providing time for enrichment activities such as complex problem-solving, use of technology, and reading/writing assignments. Due to the accelerated content and scope of the material, students are expected to do more work outside of the classroom for the successful completion of this course.

Geometry – G02H11 1 credit

Course Description: This course is a survey of the fundamental and advanced concepts of plane geometry and the related topics in three-dimensional, coordinate and transformational geometry. The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. It is designed to teach students how to develop logical thinking skills using undefined terms, definitions, postulates, and theorems. Higher level thinking skills are necessary for successful completion of Geometry as a foundation for upper-level mathematics courses.

Geometry Advanced – G02H11A 1 credit

Course Description: Geometry Advanced covers all topics of Geometry at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course, which strongly emphasizes the concept of proof. As part of the requirement for an advanced level course, students must complete rigorous assignments which may include complex problem-solving, research that involves reading/writing assignments, investigations and explorations, and advanced use of technology.

Algebra II – G02HO5 1 credit

Course Description: Algebra II builds on the previous work with linear, quadratic, and exponential functions. Students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Algebra II Advanced – G02HO5A 1 credit

Course Description: This course teaches all topics of Algebra II at a significantly faster pace, in greater depth, and with supplemental topics. It is viewed as a precursor to Pre-Calculus and Calculus. Strong analytical thinking skills beyond the rigors of algebraic computation are essential for this course, which strongly emphasizes the concept of proof. Due to the fast pace and in-depth coverage of material, the student is expected to do more work outside of the classroom for successful completion of this course.

Statistics –G02H37 1 credit Prerequisite: Algebra I, Geometry, Algebra II

Course Description: This course introduces students to the basic concepts of both descriptive and inferential statistics. Topics include collecting, displaying, interpreting, and analyzing data; surveys and experimental design; drawing conclusions about a population from a sample and predicting with data. Students must have a good understanding of equation solving and be comfortable working with functions and their graphs.

Math Reasoning for Decision Making—G02H97 1 credit Prerequisite: Algebra I, Geometry, Algebra II

Course Description: Applications and modeling using mathematics are the primary focus of this course. Throughout the course, students explore mathematical content in the context of applications to the real-world. Topics will build upon previous knowledge requiring students to reason, solve, and represent mathematical concepts in multiple ways to encourage the use of math to answer problems students will encounter in life. This course is best intended for students who are planning to attend a College of Applied Technology, military service, or enter the workforce immediately following graduation.

Pre-calculus –G02H23 1 credit Prerequisite: Algebra I, Geometry, Algebra II.

Course Description: This course combines topics from areas of higher mathematics, including trigonometry, complex numbers, and analytical geometry, sequences and series, probability, exponential and logarithmic functions, graphs, and vectors

SAILS Statistics-G02H37S 1 credit

Course Description: This course introduces students to the basic concepts of both descriptive and inferential statistics. Topics include collecting, displaying, interpreting, and analyzing data; surveys and experimental design; drawing conclusions about a population from a sample and predicting with data. Students must have a good understanding of equation solving and be comfortable working with functions and their graphs. Students' math subscore on the ACT must be below 19 to be eligible for this course. This course may satisfy the need for remedial course work at colleges.

SAILS Math Reasoning for Decision Making-G02H97S 1 credit

Course Description: Applications and modeling using mathematics are the primary foci of this course. Throughout the course, students explore mathematical content in the context of applications to the real-world. Topics will build upon previous knowledge requiring students to reason, solve, and represent mathematical concepts in multiple ways to encourage the use of math to answer problems students will encounter in life. This course is best intended for students who are planning to attend a College of Applied Technology, military service, or enter the workforce immediately following graduation.

Calculus-G02H18 1 credit Prerequisite: Pre-calculus.

Course Description: Calculus is designed for students interested in STEM-based careers and builds on the concepts studied in Precalculus. Calculus is primarily concerned with developing the student's understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts,

results, and problems being expressed graphically, numerically, analytically, and verbally. Subject areas include functions, graphs, limits, derivatives, and an introduction to integrals.

SCIENCE

Three (3) credits in science are required for graduation: Biology, Chemistry **OR** Physics, and one other lab science.

Biology I – G03H03 1 credit Recommended prerequisite: Physical Science or Environmental Science
Course Description: Biology I is a *laboratory* science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time. Students explore biological concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Cells, Interdependence, Flow of Matter and Energy, Heredity, and Biodiversity and Change

Biology I Advanced – G03H03A 1 credit

Course Description: This course teaches all topics of Biology I at a significantly faster pace, in greater depth, and with supplemental topics. The course makes greater use of hands-on laboratory experiences. Course activities include project-based learning opportunities, extended reading assignments, and integration of technology. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

Chemistry I – G03H12 1 credit Recommended prerequisites: Physical science, Algebra I

Course Description: Chemistry I is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy. Students explore chemistry concepts through an inquiry-based approach. Embedded standards for Inquiry, Mathematics, and Technology & Engineering are taught in the context of the content standards for Atomic Structure, Matter and Energy, and Interactions of matter.

Chemistry I Advanced – G03H12A 1 credit Recommended prerequisites: Physical Science-Advanced, Algebra I-Advanced.

Course Description: This course teaches all topics of Chemistry I at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills beyond the rigors of basic chemistry are essential for this course. Students are afforded greater opportunities for laboratory experiences that require higher order thinking and reasoning skills. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

Earth & Space Science – G03H02 1 credit

Course Description: Earth Science is a *laboratory* science course that explores origins and the connections between the physical, chemical, and biological processes of the earth system. Students experience the content of Earth Science through inquiry-based laboratory investigations and focus on topics associated with matter, energy, crystal dynamics, cosmic evolution, and structure, cycles, geochemical processes, and the expanded time scales needed to understand events in the earth system. Earth Science provides the knowledge, skills, and habits of mind needed for problem solving and ethical decision making about scientific and technological issues. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for the Universe, Energy in the Earth System, Cycles in the Earth System, and Geologic History.

Environmental Science – G03H33 1 credit

Course Description: Environmental Science is a *laboratory* science course that enables students to develop an understanding of natural and man-made environments and environmental problems the world faces. Students explore environmental science concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Earth Systems, The Living World, Human Population, Water and Land Resources, Energy Resources and Consumption, Pollution and Waste Production, Global Change, and Civic Responsibility.

Human Anatomy and Physiology – G03H31 1 credit Recommended prerequisite: Biology I

Course Description: Human Anatomy and Physiology is a *laboratory* science course that includes an in-depth study of the body systems that maintain homeostasis from anatomical, physiological, and histological perspectives. Students explore anatomical and physiological concepts through an inquiry-based approach. Embedded standards for Inquiry and Technology & Engineering are taught in the context of the content standards for Anatomical Orientation, Protection, Support, and Movement, Integration and Regulation, Transportation, Absorption and Excretion, and Reproduction, Growth, and Development.

Physical Science – G03H00 1 credit

Course Description: Physical Science is a *laboratory* science course that explores the relationship between matter and energy. Students investigate physical science concepts through an inquiry-based approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Energy, Matter, Motion, and Forces.

Physical Science Advanced – G03H00A 1 credit

Course Description: This course teaches all topics of Physical Science at a significantly faster pace, in greater depth, and with supplemental topics. Strong analytical thinking skills are essential for this course. Students are afforded greater opportunities for laboratory experiences as well as the use of project-based learning opportunities. Due to the fast pace and in-depth coverage of material, students are expected to do additional work outside of the classroom for successful completion of this course.

Physics – G03H20 1 credit Recommended prerequisites: Physical Science, Algebra II, or Pre-Calculus

Course Description: Physics is a *laboratory* science course that examines the relationship between matter and energy and how they interact. This course will have a strong emphasis on the mathematics of physics. Students explore physics concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Mechanics, Thermodynamics, Waves and Sound, Light and Optics, Electricity and Magnetism and Atomic & Nuclear Science.

SOCIAL STUDIES

Three (3) credits in social sciences are required for graduation: Economics, US Government and Civics, United States History and Geography, and World History and Geography.

African American History – G04H23 0.5 credit

Course Description: Students will examine the life and contributions of African Americans from the early 1600's through modern America. Students will explore the influence of geography on slavery and the growth of slavery on the American continent. Students will consider urban and rural African American communities and institutions in the North and South leading up to and during the Civil War. Students will investigate the rise and effects of Jim Crow and trace the impact of African American migration through the early twentieth century. Students will explore the impact of the Harlem Renaissance and the conditions and contributions of African Americans during the Great Depression and World War II. Students will examine the successes and failures of the Civil Rights Movement and consider the contemporary issues confronting African Americans.

Ancient History – G04H04 0.5 credit

Course Description: Students will examine the major periods of Ancient History from prehistoric times to 1500 AD/CE. Major emphasis will be given to the Neolithic Revolution, the development of river valley civilizations, the rise of Greece and Rome, and the decline and fall of the Roman Empire.

Contemporary Issues- G04H17 0.5 credit

Course Description: Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

Economics – G04H13 0.5 credit

Course Description: Students will examine the allocation of scarce resources and the economic reasoning used by government agencies and by people as consumers, producers, savers, investors, workers, and voters. Key elements of the course include the study of scarcity, supply and demand, market structures, the role of government, national income determination, money and the role of financial institutions, economic stabilization, and trade. Students will examine the key economic philosophies and economists who have influenced the economies around the world in the past and present. Informational text and primary sources will play an instrumental part of the study of economics where it is appropriate.

Psychology – G04H15 0.5 credit

Course Description: Students will study the development of scientific attitudes and skills, including critical thinking, problem solving, and scientific methodology. Students will also examine the structure and function of the nervous system in human and non-human animals, the processes of sensation and perception, and life span development. Students will study social cognition, influence, and relations. Students will examine social and cultural diversity and diversity among individuals. Students will study memory, including encoding, storage, and retrieval of memory. Students will also study perspectives of abnormal behavior and categories of psychological disorders, including treatment thereof. Students will elaborate on the importance of drawing evidence-based conclusions about psychological phenomena and gain knowledge on a wide array of issues on both individual and global levels. Throughout the course,

students will examine connections between content areas within psychology and relate psychological knowledge to everyday life. Students will explore the variety of careers available to those who study psychology.

Sociology – G04H14 0.5 credit

Course Description: Students will explore the ways sociologists view society, and how they study the social world. In addition, students will examine culture, socialization, deviance and the structure and impact of institutions and organizations. Also, students will study selected social problems and how change impacts individuals and societies

United States Government and Civics – G04H12 0.5 credit

Course Description: Students will study the purposes, principles, and practices of American government as established by the Constitution. Students are expected to understand their rights and responsibilities as citizens and how to exercise these rights and responsibilities in local, state, and national government. Students will learn the structure and processes of the government of the state of Tennessee and various local governments. The reading of primary source documents is a key feature of United States Government and Civics standards

United States History and Geography: Post-Reconstruction to the Present – G04H11 1 credit

Course Description: Students will examine the causes and consequences of the Industrial Revolution and America's growing role in world diplomatic relations, including the Spanish-American War and World War I. Students will study the goals and accomplishments of the Progressive movement and the New Deal. Students will also learn about the various factors that led to America's entry into World War II, as well as its consequences for American life. Students will explore the causes and course of the Cold War. Students will study the important social, cultural, economic, and political changes resulting from the Civil Rights Movement, the Cold War, and recent events and trends that have shaped modern-day America. Additionally, students will learn the causes and consequences of contemporary issues impacting their world today. Students will continue to use skills for historical and geographical analysis as they examine American history since Reconstruction with special attention to Tennessee connections in history, geography, politics, and people. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. The reading of primary source documents is a key feature of United States history standards. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society.

United States History & Geography Advanced –G04H11A 1 credit

Course Description: This course teaches all topics of US History and Geography at a significantly faster pace, in greater depth, and with supplemental topics. The course examines several primary source documents and students are expected to write and cite compelling evidence for their writing. Course activities include project-based learning opportunities, extended reading assignments, and integration of technology. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

World History and Geography: The Industrial Revolution to the Contemporary World—G04H10 1 credit

Course Description: Students will study the rise of the nation state in Europe, the French Revolution, and the economic and political roots of the modern world. They will examine the origins and consequences of

the Industrial Revolution, nineteenth century political reform in Western Europe, and imperialism in Africa, Asia, and South America. They will explain the causes and consequences of the great military and economic events of the past century, including the World Wars, the Great Depression, the Cold War, and the Russian and Chinese Revolutions. Finally, students will study the rise of nationalism and the continuing persistence of political, ethnic, and religious conflict in many parts of the world. Relevant Tennessee connections will be part of the curriculum, as well as appropriate primary source documents. Students will explore geographic influences on history, with attention given to political boundaries that developed with the evolution of nations from 1750 to the present and the subsequent human geographic issues that dominate the global community. Additionally, students will study aspects of technical geography such as GPS and GIS, and how these innovations continuously impact geopolitics in the contemporary world.

World History and Geography Advanced –G04H10A 1 credit

Course Description: This course teaches all topics of World History and Geography at a significantly faster pace, in greater depth, and with supplemental topics. The course examines several primary source documents and students are expected to write and cite compelling evidence for their writing. Course activities include project-based learning opportunities, extended reading assignments, and integration of technology. Due to the fast pace and in-depth coverage of material, students are expected to do more work outside of the classroom for successful completion of this course.

Tennessee History – G04H01 0.5 credit

Course Description: Students will examine the history of Tennessee, including the cultural, geographic, economic, and political influences upon that history. Students will discuss Tennessee's Indigenous peoples as well as the arrival of EuroAmerican settlers. Students will analyze and describe the foundation of the state of Tennessee. Students will identify and explain the origins, impact, and aftermath of the Civil War. Students will discuss the rise of the manufacturing economy. Finally, students will examine and discuss the Civil Rights Movement and Tennessee's modern economy and society.

World Geography-G04H07 1 credit

Course Description: Students will study people, places, and environments at local, regional, national, and international levels from the spatial and ecological perspectives of geography. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes.

WORLD LANGUAGES

Two (2) credits in the same world language are required for graduation.

Spanish Level I – G24H04 1 credit

Course Description: Through the introductory course in Spanish, students gain the ability to communicate in a wide variety of situations, from expressing likes and dislikes to ordering in a restaurant, all in Spanish. Vocabulary, grammar, and culture are woven together to help the novice language learner gain confidence. Technology is also used to enhance the learning process. **Spanish Level I Advanced (G24H04A)** is an option for students who display a strong interest in the language and display exceptional language skills

Spanish Level II – G24H05 1 credit Prerequisite: Spanish I

Course Description: Spanish, in the second year, fulfills the basic foreign language requirements for students required by the Tennessee Diploma Project. Students continue to gain confidence in their Spanish-speaking abilities as they communicate in more real-life situations. Vocabulary, grammar, and culture Knowledge will be extended to support more advanced conversation. Students will participate in many different learning activities and benefit from the continued use of technology. **Spanish Level II Advanced (G24H05A)** is an option for students who have taken Spanish I Advanced display a strong interest in the language and display exceptional language skills.

Spanish Level III – G24H06 1 credit Prerequisites: Spanish I and II

Course Description: This course focuses primarily on conversational Spanish and is for learners who want a more rigorous immersion in the language, along with exposure to more vocabulary and attention to even finer details of grammar. Students will develop appreciation of culture through the study of literature, the arts, and current events in the Hispanic world. Students should expect to express themselves in the target language. The use of technology will enhance the learning process. In addition, students will do independent research projects on topics of their choice.

Spanish Level IV – G24H07 1 credit Prerequisites: Spanish I, II, and III

Course Description: In this course students will engage in spoken communication, engage in written communication, synthesize information from diverse resources, and plan and produce required spoken and written presentations of course themes using their skills in advanced low level to advanced high level to demonstrate their competence in Spanish grammar, vocabulary and cultural knowledge.

Other world language courses may be offered depending on instructor availability to include American Sign Language, Chinese, French, German, Latin, and Heritage Spanish.

FINE ARTS

One (1) credit for a Fine Art is required for graduation.

Visual Art I: Comprehensive – G05H08 1 credit

Course Description: This course enables students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Advanced courses encourage students to refine their skills while also developing their own artistic styles following and breaking from traditional conventions. Courses may also include the study of major artists, art movements, and styles.

Visual Art II: Comprehensive –G05H09 1 credit Prerequisite: Art I or teacher approval

Course Description: Visual Art II enables students to explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Courses may also include the study of major artists, art movements, and styles

Visual Art III: Comprehensive – G04H10 1 credit Prerequisite: Art I and II or Teacher Approval

Course Description: The Art III course further expands the student's knowledge and understanding of various art media and styles. The media and subject matter are selected by the teacher and are determined by the development and experience of each group of students. Students create individual projects and present them to the class at selected intervals. Emphasis is placed on the critical and appreciative aspects of the art experience.

Visual Arts: Sculpture III—G05HC1 1 credit Prerequisites: Art I and II or teacher approval

Course Description: The course further expands the student's knowledge and understanding of various art media and styles. The media and subject matter are specifically focused on 3-D art with an emphasis on sculpture. Students create individual projects and present them to the class at selected intervals. Emphasis is placed on the critical and appreciative aspects of the art experience.

Visual Arts: Fibers/Textiles/Paper II—G05HC6 1 credit Prerequisites: Art I and II

Course Description: The course further expands the student's knowledge and understanding of various art media and styles. The media and subject matter are specifically focused on 2-D art. Students create individual projects and present them to the class at selected intervals. Emphasis is placed on the critical and appreciative aspects of the art experience.

Visual Arts: Ceramics II—G05HB8 1 credit Prerequisites: Art I and II

Course Description: Ceramics courses engage students in learning experiences that include the historical and cultural context of ceramics, aesthetic inquiry, and creative production. These courses provide knowledge of ceramic techniques (e.g., kiln firing and glazing) and processes with an emphasis on creative design and craftsmanship. Courses may include clay modeling, hand building, coil building, casting, and throwing on the potter's wheel.

Concert Band I—G05H85 1 credit

Course Description: Courses are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert

performances and include experiences in creating and responding to music. *Codes for Concert Band II, III, and IV are G05H86, G05H87, and G05H88, respectively.*

General Band I -- G05H81 1 credit

Course Description: Courses help students develop techniques for playing brass, woodwind, and percussion instruments and their ability to perform a variety of concert band literature styles. These courses may emphasize rehearsal and performance experiences in a range of styles (e.g., concert, marching, orchestral, and modern) and include experience in creating and responding to music. *Codes for General Band II, III, and IV are G05H82, G05H83, G05H84, respectively.*

Contemporary Ensemble I—G05H93 1 credit

Course Description: This course can include jazz, rock, mariachi, chamber ensembles, and other courses outside of band and strings-specific courses. This course helps students perform a variety of contemporary styles, such as traditional jazz, jazz improvisation, rock, mariachi, chamber music and others. At the same time, the courses cultivate students' technique on instruments appropriate to the style(s) performed—brass, woodwind, string, percussion instruments, and/or electronic. Advanced coursework provides students with opportunities for growth through rehearsal and performance, improvisation, or creating and performing their own compositions. *Codes for Contemporary Ensemble II, III, and IV are G05H94, G05H95, and G05H96, respectively.*

Chorus I—G05HA1 1 credit

Course Description: Courses develop students' vocal skills within the context of a large choral ensemble in which they perform a variety of styles of repertoire. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experience in creating and responding to music. *Codes for Chorus II, III, and IV are G05HA2, G05HA3, and G05HA4, respectively.*

Vocal Ensemble I—G05H97 1 credit

Course Description: This course is for students interested in singing at an advanced level. Students will sing music in preparation for concerts and/or performances. Students will develop strong sight reading skills and continue to develop healthy vocal technique. *Codes for Vocal Ensemble II, III, and IV are G05H98, G05H99, and G05HA0, respectively.*

Class Piano I—G05HA5 1 credit

Course Description: Courses provide students with an introduction to, and refine the fundamentals of, music and keyboard including literature and techniques such as scales, chords, and melodic lines and may offer instruction in more advanced techniques. Formal and informal performances are typically included as well as experiences in creating and responding to music. *Codes for Class Piano II is G05HA6.*

Guitar I—G05HA9 1 credit

Course Description: Courses provide students with an introduction to, and refinement of the fundamentals of, music and guitar literature and techniques, such as strumming and chords, and may offer instruction in more advanced techniques. These courses may include bass, ukulele and other plucked string instruments. Formal and informal performances are typically included as well as experiences in creating and responding to music. *Codes for Guitar II is G05HB0.*

Theatre: Comprehensive I – G05H16 1 credit

Course Description: Theater Arts I helps students experience and develop skills in one or more aspects of theatrical production. Introductory courses provide an overview of theatrical elements including acting, set design, stage management, directing, playwriting, and production. Advanced courses concentrate on extending and refining dramatic techniques, expanding students' exposure to distinct types of theatrical

styles, genres, and traditions, and increasing their participation in public productions. *Codes for Theatre Comprehensive II, III, and IV are G05H17, G05H18, and G05H19, respectively.*

Music Theory—G05H44 1 credit

Course Description: This course provides students with an understanding of the fundamentals of music and includes the following topics: composition, arranging, analysis aural development, and sight reading.

Art History—G05HC8 1 credit

Course Description: This course consists of students surveying the timeline of art through the ages. Students learn to identify unique styles, techniques, media, and influences. Students formulate and articulate their reactions to various kinds of artwork to understand and appreciate themselves, others, and the world around them.

Media Arts High School I—G05H05 1 credit

Course Description: Media Arts courses introduce students to the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres, and styles from various mediums and forms, such as moving image, sound, interactive, spatial and/or interactive design. Topics may include aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; transmission, distribution and marketing; and contextual, cultural, and historical aspects and considerations.

General Music—G05H11 1 credit

Course Description: General Music courses provide students with an understanding of music and its importance in their lives. Course content focuses on how various styles of music apply musical elements to create an expressive or aesthetic impact. Students also have the ability for informal music performance and creation within the classroom. Instruction may include music theory, music history, and other studies in music.

MILITARY SCIENCE

NOTE: Two (2) credits in AFROTC satisfy the following graduation requirements: One (1) credit for Lifetime Wellness and one-half (.5) credit for Physical Education.

Three (3) credits in AFROTC satisfy the following graduation requirements: one-half (.5) credit of Personal Finance and one-half (.5) credit of U.S. Government and Civics.

AFROTC I G08H04 1 credit Prerequisite: none.

Course Description: Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drills and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

AFROTC II G08H05 1 credit Prerequisite: AFROTC I.

Course Description: Provides basic training in leadership tenets, physical fitness and health, drill and ceremonies, marksmanship, and military organization. Cadets are expected to develop certain positive attitudes, values, and leadership qualities from the instruction and the leadership provided by the instructors. This course emphasizes drills and ceremonies and lays the foundation for the grade level to follow. Students will be required to wear proper JROTC acquired uniforms periodically.

AFROTC III G08H06 1 credit Prerequisite: AFROTC I and II.

Course Description: This course builds on the foundations laid in JAFROTC I and II. It explores each subject in greater detail and emphasizes weapons training and marksmanship. Leadership roles are assigned to second year cadets. Students will be required to wear proper R.O.T.C. uniforms periodically.

***AFROTC IV (G08H07), AFROTC V (G08H08), AFROTC VI (G08H09), AFROTC VII (G08H10), AFROTC VIII (G08H11) and AFROTC IX (G08H12)** are also available, with I, II, and III as prerequisites. All are one credit each. Higher level ROTC courses require instructor permission.

OTHER REQUIREMENTS FOR GRADUATION

Lifetime Wellness - G08H02 1 credit

Course Description: The content of the course includes seven standards: Disease Prevention and Control, Nutrition, Substance Use and Abuse, Mental/Emotional/Social Health, Sexuality and Family Life, Safety and First Aid and Personal Fitness. Each content area is addressed in a classroom and/or physical activity setting. Personal fitness and nutrition should be emphasized and integrated throughout the course. Students are provided opportunities to explore how content areas are interrelated. Students acquire knowledge and skills necessary to make informed decisions regarding their health and well-being throughout their lifetime.

Personal Finance-G04H36 0.5 credit (may also be taught as CTE course C29H11)

Course Description: Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets. Simulate the use of checking and saving accounts; Demonstrate knowledge of finance, debt, and credit management; And evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

Physical Education I G08H00 0.5 credit

Course Description: Physical Education is an academic subject providing the opportunity for students to learn knowledge and skills needed to establish and maintain physically active lifestyles throughout childhood and adolescence and into adulthood. Instruction in a variety of motor skills designed to enhance child and adolescent development. The course emphasizes fitness education and assessment that allows for understanding and improvement of physical well-being, development of cognitive concepts related to motor skills and fitness, opportunities to improve social and cooperative skills, as well as opportunities to increase the value placed on physical activity for health, enjoyment, self-expression, and confidence. This ½ credit requirement may be satisfied by several different options, including two credits in AFROTC, interscholastic athletics, etc. Schools may offer variations of Physical Education, including Team Games, Strength and Conditioning, Table Games, and Interscholastic Athletics.

Computer Science Foundations C10H11 1 credit

Course Description: Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. As a result, students will complete all core standards, as well as standards in two of four focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

GENERAL ELECTIVE COURSES

Preparing for ACT, Postsecondary, & Career—G25H00 0.5 credit

Course Description: Students review skills and competencies required for success on the ACT. They will become familiar with the format and scoring of the ACT, learn test-taking skills, and receive individualized instruction enabling them to demonstrate their knowledge on the ACT.

EARLY POSTSECONDARY OPPORTUNITIES

Associate's Degree Program with Volunteer State Community College

Students can earn an associate's degree while attending high school. Juniors and seniors can enroll in fifteen credit hours each semester. There are some required courses that must also be taken at the home high school. Some courses will be held in person at Volunteer State at Springfield and others will be offered online. There are scholarship and grant opportunities available to assist with the cost of this program. For more information, please see your school counselor.

Sample Course Sequence for Associate's Degree

Fall of Junior Year:

CITC 1300 Beginning HTML & CSS (pre-semester course)
ENGL 1010 English Composition I
HIST 2010 Early US History
Elective Student Choice
Humanities/Fine Art (HFA) Student Choice

Spring of Junior Year:

MATH 1530 Introductory Statistics Or PreCalculus/Algebra
GEOL 1030 Survey of Geology
ENGL 1020 English Composition II
POLS 1030 American Government
HFA Student Choice

Fall of Senior Year:

MATH 1710 Pre-Calculus/Algebra or Introductory Statistics
COMM 2025 Fundamentals of Communication
Literature Student Choice
Economics (Macro or Micro)
Elective Student Choice

Spring of Senior Year:

BIOL 1030 Essentials of Biology
HIST 2020 Modern US History
Elective Student Choice
Elective Student Choice
Elective Student Choice

Students must also complete all high school graduation requirements not offered through dual enrollment.

Dual Enrollment with Volunteer State Community College: Juniors and seniors can access Dual Enrollment courses through Volunteer State at their school or by an online platform. Students must meet the enrollment criteria for Volunteer State. This affords students the opportunity to earn college credit while satisfying the requirements for a Tennessee high school diploma. For more information about dual enrollment through Volunteer State and information about the Dual Enrollment grant, please see your school counselor.

The most commonly offered courses are listed below. If there are other courses a student would like to take, please see your high school counselor.

ENGL 1010 English Composition I (can count as junior or senior English)
ENGL 1020 English Composition II (can count as senior English)
HIST 2010 Early United States History (can count as US History & Geography)
HIST 2020 Modern United States History (can count as US History & Geography)
COMM 2045 Fundamentals of Public Speaking
PSYC 1030 Introduction to Psychology
SOCI 1010 Introduction to Sociology
MATH 1530 Introductory Statistics (can count as Sr math)
MATH 1710 Pre-calculus Algebra (can count as Sr math)
MUS 1030 Introduction to Music (can count as Fine Art)
ART 1035 Introduction to Art (can count as Fine Art)
THEA 1030 Introduction to Theater (can count as Fine Art)
POLS 1030 American Government (can count as US Government & Civics)
ECON 2100 Principles of Microeconomics (can count as Economics)

University of Tennessee at Martin/Vol State Agribusiness Cohort Juniors and seniors can access these dual enrollment courses that will lead toward an eventual degree in Agriculture. Some classes will be taken at Vol State Springfield Campus and others will be online. Please talk to your agriculture teacher or school counselor for more information.

Tentative Course Schedule:

Fall of Junior Year:

HIST 2010 Early United States History
AGEC 110 Introduction to Ag Business

Spring of Junior Year:

ENGL 1010 English Composition I
ANSC 110 Introduction to Animal Science

Fall of Senior Year:

MATH 1530 Elements of Statistics
AGEC 250 Introduction to Agricultural Sales

Spring of Senior Year:

ENGL 1020 English Composition II
PLSC 110 Introduction to Plant and Soil Science

Advanced Placement classes may be available at certain schools through the AP Access for All Program. Please see the school counselor.

CAREER AND TECHNICAL EDUCATION (CTE)

The purpose of Career and Technical Education is to prepare students for careers and post-secondary opportunities that lead to high paying, high demand jobs. CTE paths may lead a student to industry certifications, technical schools, community colleges, or universities.

Students who do not choose an academic focus must complete a Career and Technical Education (CTE) program of study. A program of study is defined as three sequential classes in a specified CTE career cluster. Robertson County offers fourteen of the sixteen career clusters recognized in Tennessee. Programs not offered at smaller schools can be taken at the Springfield Career Technical Center (SHS CTC) during third block. Students enrolled in some programs that articulate to a technical school can dually enroll at Tennessee College of Applied Technology (TCAT) while other programs align with university pathways and can be started in partnerships with Volunteer State Community College or University of Tennessee at Martin.

Agriculture and Natural Resources

Agriscience – C18H19: ERHS, GHS, JBHS, SHS, WHHHS 1 credit

Course Description: Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the key role that agricultural science and technology plays in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

Small Animal Science—C18H20- ERHS, GHS, JBHS, SHS, WHHHS 1 credit

Course Description: Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers the anatomy and physiological systems of distinct groups of small animals, as well as careers, leadership, and the history of industry.

Large Animal Science—C18H27 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit

Course Description: Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers the anatomy and physiological systems of distinct groups of large animals, as well as careers, leadership, and history of industry.

Veterinary Science—C18H21 -offered at ERHS, JBHS, SHS and WHHHS 1 credit

Course Description: Veterinary Science is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers principles of health and disease, basic animal care and nursing, clinical and laboratory procedures, and additional industry-related career and leadership knowledge and skills.

Principles of Agricultural Mechanics—C18H12 @ ERHS, GHS, JBHS 1 credit

Course Description: Principles of Agricultural Mechanics is a course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

Agriculture Power and Equipment—C18H13 @GHS, JBHS 1 credit

Course Description: Agriculture Power and Equipment is an applied-knowledge course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel powered engines as well as exploration of a wide range of careers in agricultural mechanics.

Agricultural Fabrication and Biosystems Engineering—C18H42 @ ERHS, GHS, JBHS 1 credit

Course Description: Agricultural and Biosystems Engineering is a capstone course that prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics. Special emphasis is given to the many modern applications of Geographic Information Systems (GIS) and Global Positioning Systems (GPS) to achieve various agribusiness goals.

Greenhouse Management—C18H17 @ ERHS, JBHS 1 credit

Course Description: Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. It provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. Greenhouse Management is a dual credit course with statewide articulation.

Landscaping and Turf Science—C18H17 @ ERHS, JBHS 1 credit

Course Description: Landscaping and Turf Science is an applied-knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape design, maintenance, and turf management. The content includes site analysis and planning, principles of design, and plant selection and care techniques.

Principles of Plant Science and Hydroculture – C18H30 @ JBHS 1 credit

Course Description: Principles of Plant Science and Hydroculture focus on essential knowledge and skills related to the science of plant growth. This course covers principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics. Upon completion of this course, proficient students will be prepared for more advanced coursework in horticulture science.

Food Science and Safety C18H26 @ ERHS 1 credit

Course Description: Food Science and Safety is an applied-knowledge course designed for students interested in careers in food science. The course covers fundamental principles of food science, food safety and sanitation, foodborne pathogens, and food-related standards and regulations. Upon completion of this course, students will be versed in the technical knowledge and skills necessary for further education and careers in food science.

Advanced Food Science-C18H24 @ ERHS 1 credit

Course Description: This course is an applied course designed to prepare students for further education and careers in food science and technology. This course covers advanced principles of food science, characteristics and properties of food products, processing and grading techniques and skills, and food labeling and packaging principles. Upon completion of this course, proficient students will be able to pursue advanced training in food science at a postsecondary institution.

Architecture and Construction

Fundamentals of Construction—C17H15 @ SHS CTC 1 credit

Course Description: *Fundamentals of Construction* is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts.

Residential and Commercial Construction I— C17H24 @ SHS CTC 1 credit

Course Description: Residential & Commercial Construction I is the second course in the *Residential & Commercial Construction* program of study intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the earlier phases of building construction, including site layout, foundation systems, concrete, framing systems, and electrical systems. Students will be able to perform concrete work; frame walls, ceilings, and floors of a structure; and install proper wiring while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts.

Residential and Commercial Construction II - C17H25 @ SHS CTC 1 credit

Course Description: Residential & Commercial Construction II is the third course in the *Residential & Commercial Construction* program of study intended to prepare students for careers in construction by developing an understanding of the distinct phases of a construction project from start to finish. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in the later phases of building construction including roofing systems, exterior finishing, stair framing systems, masonry systems, and plumbing systems. Students will be able to perform masonry work; frame roofs; install shingles on roofs; apply exterior finishes; and install piping for plumbing systems while safely employing tools and interpreting construction drawings to complete projects.

Arts, Audio/Visual Technology & Communication

Foundations of Fashion Design—C11H17 @ GHS, SHS 1 credit

Course Description: Foundations of Fashion Design is an introductory course designed to expose students to the world of fashion. Areas of study include fashion fundamentals, principles and elements of design; career options and preparation; product selection and maintenance; and consumer strategies.

Fashion Design—C11H10 @ GHS, SHS 1 credit

Course Description: Fashion Design is an applied-knowledge course intended to prepare students to pursue careers in the fashion industry. Building on the knowledge acquired in Foundations of Fashion Design, this course places special emphasis on apparel manufacturing and merchandising, marketing applications, product and service management, and the creation of an original fashion collection. In addition, students will explore trends in fashion design and engage with industry-specific technologies used to produce a variety of fabrics, garments, and accessories.

Advanced Fashion Design—C11H11 @ GHS, SHS 1 credit

Course Description: Advanced Fashion Design is the capstone course in the Fashion Design program of study. This course is designed to prepare students for further education and careers in the fashion industry. Through exposure to crucial business activities such as project management and product

promotion, students will acquire advanced skills related to business professionalism, ethics, policies, and communication in the fashion industry.

A/V Production I—C11H01 @ GHS, SHS 1 credit

Course Description: This is a foundational course for students interested in A/V (audio/visual) production occupations. Upon completion of this course, proficient students will be able to explain and complete the phases of the production process including pre-production, production, and post-production. Students will establish basic skills in operating cameras, basic audio equipment, and other production equipment. Standards in this course include career exploration, an overview of the history and evolution of A/V production, and legal issues affecting A/V production. In addition, students will begin compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

A/V Production II—C11H02 @GHS, SHS 1 credit

Course Description: Building on knowledge acquired in A/V I, this course advances technical skills utilizing industry equipment related to lighting and audio, and it places special emphasis on the research and technical writing involved in planning productions. Upon completion of this course, proficient students will be able to plan, capture, and edit research-based productions of increasing complexity, individually and through collaboration in teams. In addition to more robust career preparation, standards in this course include an investigation of concerns affecting A/V production businesses, such as ethical and legal issues, technology, funding, and the organization of professional roles in various industries.

A/V Production III—C11H03 @GHS, SHS 1 credit

Course Description: Students in this course will apply knowledge and skills from previous courses in this program of study to create productions both individually and in teams. Students will use industry equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions. Standards in this course include policies and regulations, independent and collaborative productions, distribution of media, and the production of live events.

Digital Arts and Design I—C11H06 @ SHS CTC, WHHHS 1 credit

Course Description: Digital Arts and Design I is a course that provides a foundation in visual communication concepts and design strategies. Course content is designed to foster skills and understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. The focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively reach target audiences. Along with study of design principles, conceptualization processes and techniques, students will explore various applications of design through extensive study of typography, style, composition, visual elements, color, creative technical software and various problem-solving tasks, which encourages higher order thinking.

Digital Arts and Design II—C11H05 @ SHS CTC, WHHHS 1 credit

Course Description: Digital Arts and Design II is a course that builds on the foundational core elements of visual communication concepts and design strategies, learned in (Digital Arts and Design I) Course content is designed to reinforce skills and support understanding that are essential in modern digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. The focus will be on developing understanding of key design concepts and strategies, along with design challenges that translate into creative communication solutions which accurately and effectively communicate. Along with continued study of design principles, conceptualization processes and techniques, students will gain mastery of various applications of design through continued study of

typography, style, composition, visual elements, color, creative technical software and more focused problem-solving tasks, which encourages higher order thinking.

Digital Arts and Design III—C11H16 @ SHS CTC, WHHHS 1 credit

Course Description: Digital Arts and Design III involves the confluence of technologies, visual arts and creative practices that have changed dramatically over the past several years. Increasingly, the design studio functions as a dynamic and vital space for learning, exploring, and innovation. Negotiating complex relationships, developing communication strategies that leverage new technologies and provide robust opportunities for the application of knowledge, skills, and critical thinking associated with an array of contemporary creative and studio practices is the new industry standard. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Students will be exposed to real world design challenges in a laboratory facility through projects that simulate industry objectives.

Applied Arts Practicum—C11H07@ SHS CTC, WHHHS 1 credit

Course Description: The Applied Arts Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Arts, A/V Technology, & Communications courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by professionals in these careers, students learn to refine their skills in problem solving, research, communication, teamwork, and project management through the completion of a course-long project. Upon completion of the practicum, proficient students will be prepared to pursue postsecondary study in arts, A/V technology, or communications programs; or seek additional training or employment with the aid of the portfolio, which documents the student's work completed throughout the program of study.

Business Management and Administration

Intro to Business and Marketing—C12H26 @ERHS, GHS, SHS, WHHHS 1 credit

Course Description: Business Principles is a core course in which students are introduced to all aspects of business: the domestic and international economies, financial principles, management strategies, administrative and information systems, ethics, and organizational and professional leadership. Students will analyze the elements of the business environment and focus on attitudinal and problem-solving skills inherent to success.

Principles of Office Applications—C12H84 – offered at all schools 1 credit

Course Description: This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the social, business, and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production of word processing documents, spreadsheets, databases, and presentations.

Business Management – C12H17 - @ GHS, IA, JBHS, SHS, WHHHS 1 credit

Course Description: Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development, and related careers.

Business Communication – C12H16 - @ offered at all schools 1 credit

Course Description: Business Communications is a course designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of communications, including social media, as well as electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations.

Advanced Office Applications—C12H85 – offered at all schools 1 credit

Course Description: This is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies in the production of professional quality business documents and presentations. The course focuses on student choice, accountability and performance. Students increase their employability by working toward the attainment of high-level skills in the areas of integrated software applications, communication skills, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, multimedia presentations, schedule and contact management, etc.

Education and Training

Teaching as a Profession I—C32H01 – @ GHS, ERHS 1 credit

Course Description: Teaching as a Profession I (TAP I) is an applied-knowledge course for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students in this course will conduct observations of educators at work and create artifacts for a course portfolio.

Teaching as a Profession II—C32H02 – @ GHS, ERHS 1 credit

Course Description: Teaching as a Profession II (TAP II) is an applied knowledge course for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. This course covers classroom management, concepts of higher order thinking, differentiating instruction, and strategies of effective classroom planning. Students in this course will demonstrate their skills in laboratory settings while building a course portfolio of work.

Teaching as a Profession Practicum - C32H03 – @ GHS, ERHS 1 credit

Course Description: Teaching as a Profession III (TAP III) is a capstone course in the Education and Training Cluster for students interested in learning more about becoming a teacher, school counselor, librarian, or speech-language pathologist. The course covers classroom professionalism, ethics, policies, communications, and career requirements in education fields. In addition, students will complete an internship and continue to create artifacts for their student portfolios.

Early Childhood Careers I—C32H06 - @ WHHHS 1 credit

Course Description: Early Childhood Education Careers I is a foundational course in the Human Services career cluster. Careers in early childhood education include but are not limited to childcare providers, nannies, and preschool teachers. This course studies the foundation of childhood development services, careers, provider responsibilities and aptitudes, and fundamentals of child development. Students will create a course portfolio.

Early Childhood Careers II--C32H07 - WHHHS 1 credit

Course Description: Early Childhood Education Careers II is an applied knowledge course for students interested in learning more about becoming an early childhood teacher, nanny, or childcare provider. This course covers the components of curriculum planning, learning, screening and assessing, special populations, and educational technology. Students in this course will observe educators in action, practice specific skills, and add personal work products to a course portfolio.

Early Childhood Careers III—C32H08 - @ WHHHS 1 credit

Course Description: Early Childhood Education Careers III is an applied knowledge course for students interested in learning more about becoming an early childhood teacher, nanny, or childcare provider. This course covers the components of the learning environment, planning age-appropriate activities, using activities for learning, and developing communication skills. Students in this course will participate in a work-based learning component of instruction and add work products to a course portfolio.

Finance**Accounting I—C29H00 – GHS, SHS, WHHHS 1 credit**

Course Description: Accounting I introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, a partnership, and a corporation. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements.

Accounting II – C29H01 – @ SHS CTC 1 credit

Course Description: Accounting II is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, a partnership and a corporation. Departmental, management, cost, and not-for-profit accounting systems are explored. This course will apply the theory and practices developed in Accounting I.

Personal Finance—C12H24 – offered at all schools 0.5 credit

Course Description: Personal Finance is a foundational course designed to inform students how individual choices directly influence occupational goals, future earning potential, and long-term financial well-being. The standards in this course cover decision-making skills related to goal setting, earning potential, budgeting, saving, borrowing, managing risk, and investing. The course helps students meet the growing complexities of personal financial management and consumer decision making.

Health Science Education**Health Science Education—C14H14 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit**

Course Description: This course is an introduction to broad standards that serve as a foundation for Health Care Occupations and functions across health services. Units included are academics in health care communications systems, legal responsibilities, ethics, teamwork, and safety practices.

Diagnostic Medicine—C14H12 –@ ERHS, JBHS, SHS, WHHHS 1 credit

Course Description: Diagnostic Medicine creates a picture of an individual's health status at a single point in time. This could include the following careers and career areas: audiologist, cardiology, imaging, medical laboratory, radiography, nuclear medicine, stereotactic radiosurgery, cytotechnology, clinical laboratory technician, pathologists, medical physician, and histotechnologist.

Medical Therapeutics—C14H15 – ERHS, GHS, JBHS, SHS, WHHHS 1 credit

Course Description: Medical Therapeutics is an applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutics services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components of treatments. The student will incorporate communication, goal setting, and information collection skills to be successful in the workplace.

Anatomy and Physiology—C14H09/G03H31 @ WHHHS, SHS, GHS, JBHS, ERHS 1 credit

Course Description: Health Science Education Anatomy and Physiology is a course in which students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated.

Nursing Education—C14H16 – @ ERHS, JBHS 1 credit

Course Description: Nursing Education consists of 18 units of study dealing with direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home, as well as demonstrations in the classroom. Students can be registered by the Tennessee Department of Health—after the completion of the course, 100 hours clinical and theory, passing a state test (both written and skills) and will be job ready. Students may complete a clinical internship following this course. Jobs include registered nurse, clinical nurse specialist, nurse practitioner, nurse midwife, nurse anesthetist, forensic nurse, and other occupations.

Clinical Internship – C14H11 - @ GHS, SHS, WHHHS 1 credit

Course Description: Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a pre-requisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the pre-requisite course of Cardiovascular Services or Pharmacological Science Once they have graduated and reached 18 years of age. Prior to beginning work at a clinical site, students must be certified in Basic Life Support (BLS) Cardiopulmonary Resuscitation (CPR), and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, and confidentiality. Business Management & Administration concentrators may also take this course as part of a career practicum/work-based learning placement within the Health Services Administration program of study.

Cardiovascular Services – C14H18 - @ JBHS, WHHHS 1 credit

Course Description: Cardiovascular Services is an applied course in the Diagnostic Services program of study intended to prepare students with an understanding of the roles and responsibilities of those seeking employment in the cardiovascular field of healthcare. Upon completion of this course, proficient students will have a thorough understanding of the anatomy and physiology of the heart and be knowledgeable about both invasive and non-invasive cardiovascular procedures. Students will incorporate communication, goal setting, and information collection skills to be successful in the workplace. Students who complete a Clinical Internship in addition to this course will be eligible upon graduation to sit for Certified EKG Technician (CET).

Hospitality and Tourism**Culinary Arts I—C16H06 - @ SHS CTC 1 credit**

Course Description: Culinary Arts I is the first level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Designed to introduce students to food preparation concepts, terminology and practices in the modern commercial kitchen, the content provides students the opportunity to acquire marketable

skills by examining both the industry and its career opportunities and by developing food preparation and service and interpersonal skills. Fundamental techniques and skills are taught with an emphasis on safety, sanitation, and proper equipment operation and maintenance. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

Culinary Arts II—C16H07 – @ SHS CTC 1 credit

Course Description: Culinary Arts II is the second level of Culinary Arts and prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students with the opportunity to acquire marketable skills by demonstrating the principles of safety and sanitation, food preparation skills, and teamwork to manage an environment conducive to quality food production and service operations. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning and work-based learning opportunities.

Culinary Arts III—C16H08 – @ SHS CTC 1 credit

Course Description: Culinary Arts III is the third level of Culinary Arts, and it serves as a capstone course. It, too, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. The content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions, including participation in a cooperative education experience.

Culinary Arts IV—C16H09--@SHS CTC 1 credit

Course Description: Culinary Arts IV is the capstone course in the Culinary Arts program of study intended to prepare students for careers such as banquet cook, catering assistant, event planning assistant, and many other entry-level food and beverage industry career paths. Course content reinforces the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills acquired in this program of study toward the planning and catering of an event approved by the instructor. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses. In addition to implementing the following standards, the course should include a suggested 30 hours spent in a commercial kitchen laboratory.

Human Services

Introduction to Human Studies—C19H19 – @ GHS, JBHS, SHS, WHHHS 1 credit

Course Description: Introduction to Human Studies is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process.

Lifespan Development—C19H17 – @ GHS, JBHS, SHS 1 credit

Course Description: Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Family Studies—C19H18 – @ GHS, JBHS, SHS 1 credit

Course Description: Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Nutrition Across the Lifespan—C19H15 - @ WHHHS 1 credit

Course Description: Nutrition across the Life Span is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study

Nutrition Science and Diet Therapy--C19H16 – JBHS, WHHHS 1 credit

Course Description: Nutrition and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched including the role of diet as a contributor to disease and its role in the prevention and treatment of disease. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Cosmetology I--C19H12 – @ GHS, SHS CTC 1 credit

Course Description: Principles of Cosmetology is the first level of cosmetology, and it prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students with the opportunity to acquire fundamental skills in both the theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Cosmetology II—C19H14 – @ GHS, SHS CTC 1 credit

Course Description: Design Principles of Cosmetology is the second level of cosmetology and prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students with the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 300 hours, students are eligible to take the Tennessee Board of Cosmetology Shampoo examination for a Tennessee Shampoo Technician License.

Cosmetology III—C19H13 – @ GHS, SHS 1 credit

Course Description: Chemistry of Cosmetology is the advanced level of cosmetology, and it prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students with the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Students completing this portion of the course of cosmetology will acquire the necessary hours to transfer to a post-secondary course of study to complete the hours needed to be eligible to take the Tennessee State Board of Cosmetology examination for the Tennessee Cosmetology License. Upon completion and

acquisition of 300 hours, students are eligible to take the Tennessee State Board of Cosmetology Shampooing examination for a Shampoo Technician License.

Information Technology

Computer Science Foundations C10H11 1 credit

Course Description: Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. As a result, students will complete all core standards, as well as standards in two of four focus areas. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

Coding I C10H14 @ IA 1 credit

Course Description: Coding I is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

Coding II C10H15 @ IA 1 credit

Course Description: Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increased complexity. In so doing, they develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle. Course content is reinforced through numerous short- and long-term programming projects, accomplished both individually and in small groups. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming language using high-level languages such as FOCUS, Python, or SAS.

Law, Public Safety, Corrections & Security

Criminal Justice I—C30H00 – @ SHS CTC 1 credit

Course Description: This course serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Current issues will be researched in the context of local, state, and federal laws. Investigative skills will be developed in the areas of drug use, incident documentation and basic crime scene investigation.

Criminal Justice II—C30H01 – @ SHS CTC 1 credit

Course Description: Criminal Justice II is an integrated survey of the law and justice systems for students interested in pursuing careers in law enforcement and legal services. From initial crisis scenario management to arrest, transport, trial, and corrections, procedures and laws governing the application of justice in the United States are examined in detail, with special emphasis on the best practices and professional traits required of law enforcement and legal professionals.

Criminal Justice III – C30H02 - @ SHS CTC 1 credit

Course Description: Criminal Justice III: Investigations is the final course designed to equip students with the knowledge and skills to be successful in the sciences of criminal investigations. Students will learn terminology and investigation skills related to the crime scene, aspects of criminal behavior, and applications of the scientific inquiry to solve crimes. By utilizing the scientific inquiry method, students will obtain and analyze evidence through simulated crime scenes and evaluation of case studies. Upon completion of this course, proficient students will be able to identify careers forensic science and criminology, summarize the laws that govern the application of forensic science, and draw key connections between the history of the forensic science system and the modern legal system.

Marketing

Marketing and Management I – C31H00 - @ GHS, ERHS, SHS 1 credit

Course Description: Marketing and Management I: Principles focus on the study of marketing concepts and their practical applications. Students will examine the risks and challenges that marketers face to establish a competitive edge in the sale of products and services. Topics covered include foundational marketing functions such as promotion, distribution, and selling, as well as coverage of economics fundamentals, international marketing, and career development. Upon completion of this course, proficient students will understand the economic principles, the marketing mix, and product development and selling strategies.

Marketing and Management II – C31H01 - @ ERHS, SHS 1 credit

Course Description: Marketing & Management II: Advanced Strategies is a study of marketing concepts and principles used in management. Students will examine the challenges, responsibilities, and risks managers face in today's workplace. Subject matter includes finance, business ownership, risk management, marketing information systems, purchasing, promotion, and human resource skills.

Entrepreneurship – C31H05- @ GHS, SHS 1 credit

Course Description: Entrepreneurship is an applied knowledge course that begins with the discovery process of generating new business ideas. Students research local, national, and international social and economic trends and analyze the feasibility of their own proposed businesses, both from a market demand and revenue-producing standpoint. Based on their entrepreneurial endeavors, students will prepare, write, and revise a business plan. In preparation for the business plan, students will conduct market research,

study ownership structures, evaluate risks, examine startup costs, determine essential vendors, and identify sources of capital and financing options. Students will also draft, refine, and rehearse entrepreneurship pitches developed from their business plans to present during course intervals and to give final presentations at the conclusion of the course. Upon conclusion of this course, proficient students will be able to articulate, and defend, elements of a full business plan for a new business.

Science, Technology, Engineering, and Mathematics

Principles of Engineering and Technology – C21H04 @ SHS CTC, GHS, IA 1 credit

Course Description: Principles of Engineering and Technology is a foundational course in the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students can identify and explain the steps in the engineering design process. They can evaluate existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

Engineering Design I - C21H05 @ SHS CTC, GHS, IA 1 credit

Course Description: Engineering Design I is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students can describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; understand Ohm's Law; follow the steps in the engineering design process to complete a team project; and effectively communicate design solutions to others.

Engineering Design II – C21H06 @ SHS CTC, GHS, IA 1 credit

Course Description: Engineering Design II is an applied course in the STEM career cluster for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain why material and mechanical properties are important to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others.

BioSTEM I - C21H07 - @ WHHHS 1 credit

Course Description: BioSTEM I is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics with emphasis on biotechnology. This course covers basic skills required for BioSTEM fields of study. Upon completion of this course, proficient students can identify and explain the steps in both the engineering design and the scientific inquiry process. Students conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanation to others.

BioSTEM II – C21H08 - @ WHHHS 1 credit

Course Description: BioSTEM II is a project-based learning experience for students who wish to further explore the dynamic range of BioSTEM fields introduced in BioSTEM I. Building on the content and critical thinking frameworks of BioSTEM I, this course asks students to apply the scientific inquiry and engineering design processes to a course-long project selected by the instructor with the help of student input. Instructors design a project in one of the BioSTEM fields of medical laboratory science, research science, food science, forensic science or environmental science that reflects the interest of the class as a whole; the students then apply the steps of the scientific inquiry process throughout the course to ask questions, test hypotheses, model solutions, and communicate results. In some cases, instructors may be able to design hybrid projects that employ elements of several of the BioSTEM fields. Upon completion of this course, proficient students will have a thorough understanding of how scientists research problems and methodically apply BioSTEM knowledge and skills; and they will be able to present and defend a scientific explanation to comprehensive BioSTEM scenarios.

BioSTEM III – C21H09 – WHHHS 1 credit

Course Description: BioSTEM III is an applied course in the STEM career cluster which allows students to work in groups to solve a problem or answer a scientific question drawn from real-world scenarios within their schools or communities. This course builds on BioSTEM I and BioSTEM II by applying scientific knowledge and skills to a team project. Upon completion of this course, proficient students will be able to effectively use skills such as project management, team communication, leadership, and decision making. They will also be able to effectively transfer teamwork skills from the classroom to a work setting.

Transportation, Distribution and Logistics

Maintenance and Light Repair I - C20H09 @ SHS CTC 1 credit

Course Description: The Maintenance and Light Repair I (MLR I) course prepares students for entry into Maintenance and Light Repair II. Students explore career opportunities and requirements as a professional service technician. The content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills.

Dual Enrollment Maintenance and Light Repair II - C20H10 @ SHS CTC 1 credit

Course Description: The Maintenance and Light Repair II (MLR II) course prepares students for entry into Maintenance and Light Repair III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories.

Dual Enrollment Maintenance and Light Repair III - C20H11 @ SHS CTC 1 credit

Course Description: The Maintenance and Light Repair III (MLR III) course prepares students for entry into Maintenance and Light Repair IV. Students study and service suspension and steering systems and brake systems.

Dual Enrollment Maintenance and Light Repair IV - C20H12 @ SHS CTC 1 credit

Course Description: The Maintenance and Light Repair IV (MLR IV) course prepares students for entry into the automotive workforce or into post-secondary training. Students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Upon completing all the Maintenance and Light Repair courses, students may test for the ASE Certified MLR Technician.

Introduction to Aerospace – C20H15 @ IA 1 credit

Course Description: Introduction to Aerospace is a comprehensive foundational course for students interested in pursuing careers in aviation. This course covers the basic principles governing flight and the regulation of flight that every aviation professional must know regardless of his or her occupation—as a pilot or an engineer, a salesperson or a specialist, a mechanic or a statistician. In addition to acquiring foundational knowledge of safety procedures and industry regulations, students will also gain essential understanding of aircraft structures, the flight environment, basic procedures, and navigation. Upon completion of this course, proficient students will be prepared for further study in advanced Aviation Flight and/or Aviation Maintenance courses.

Aviation I: Principles of Flight – C20H16 @ IA 1 credit

Course Description: This course builds on the fundamental knowledge and skills learned in Introduction to Aerospace while teaching students the essential competencies needed for flight under normal conditions. Upon completion of this course, proficient students will be able to apply knowledge, skills, and procedures in a variety of simulated flight environments. Moreover, students who complete this course will have the opportunity to move on to advanced study in Aviation II: Advanced Flight, where they will continue to prepare for the FAS Private Pilot written exam.

Aviation II: Advanced Flight – C20H18 @ IA 1 credit

Course Description: This course is the capstone course in the Aviation Flight program of study intended to prepare students for careers in aviation. While continuing to build upon the knowledge, skills, and competencies acquired in Introduction and Aviation I courses, students in Aviation II will receive rigorous instruction in preparation to take the Federal Aviation Administration (FAA) Private Pilot written exam. This course goes beyond the mastery of procedures under normal conditions learned in Aviation I and introduces students to the troubleshooting and diagnostic techniques used by pilots and other aircraft personnel to assess and correct for malfunctions, adjust in hazardous weather conditions, and perform other crucial emergency procedures. Continued emphasis is placed on maintaining the safety of flight and developing sound judgment (“judgment training”) throughout these conditions.

Work Based Learning- C25H23 @ all high schools up to 4 credits

Course Description: Work-based learning (WBL) is a proactive approach to bridge the gap between high school and high-demand, high-skill careers in Tennessee. Students build on classroom-based instruction to develop employability skills that prepare them for success in postsecondary education and future careers. Through experiences like internships, apprenticeships, and paid work experience, juniors and seniors may participate in this program with permission from instructors.

Early Post-Secondary Opportunities in CTE

Tennessee College of Applied Technology at Nashville (Portland Campus)

Junior and Senior students from ERHS and WHHHS may attend the Portland Campus of TCAT. Classes are offered from 7:30 – 9:30 a.m. Students then return to their home school to complete the school day. The Dual Enrollment grant will be used to pay for student classes. **Students are responsible for books, tools, and transportation.** Excellent attendance, discipline and academic history are required for admittance to these programs.

Dual Enrollment Welding

Dual Enrollment Machining

Dual Enrollment Advanced Manufacturing

Dual Enrollment Computer Information Technology
Dual Enrollment Building Construction Technology

Tennessee College of Applied Technology at Nashville (Springfield CTC).

Junior and Senior students from any high school in Robertson County may take Dual Enrollment at the CTC. **Students are responsible for books and tools.** Transportation will be provided for this program. This class can be taken both semesters.

Dual Enrollment Welding
Dual Enrollment HVAC

Tennessee College of Applied Technology at Nashville (Springfield Campus)

Junior and Senior students from **GHS, JBHS, and SHS** may attend the Springfield Campus of TCAT. Classes are offered during the 1st and 2nd block. Students will then return to their home school and complete the school day. The Dual Enrollment grant may be used to pay for classes. **Students are responsible for books and tools.** Transportation will be provided by the school system. Excellent attendance, discipline, and academic history are required for admittance to these programs.

Dual Enrollment Mechatronics

Dual Credit Testing at VSCC

Volunteer State Community College offers dual credit testing for students in various programs. Students who have met the high school course requirement may take the test for thirty dollars (\$30) at VSCC. The chart below outlines the High School CTE courses that must be completed before taking dual credit tests.

High School Course(s)	VSCC class with credit hours
Health Science Courses (any 2-3)	AHC 115 Medical Terminology (3 Hours)
Early Childhood Edu. Careers I & II	ECED 2010 Safe, Healthy Learn Environ (3 hours)
Criminal Justice I & II	CRMJ 1010 Intro to Criminal Justice (3 hours)
Marketing and Management (any 2 courses)	MKT 110 Principles of Marketing (3 hours)

Industry Certifications

Adobe Certified Associate—Photoshop—Completed in the Arts A/V Technology & Communications Program of Study within Digital Arts and Design III or Applied Arts Practicum courses at WHHHS.

Adobe Certified Associate—Illustrator—Completed in the Arts A/V Technology & Communications Program of Study within Digital Arts and Design III or Applied Arts Practicum courses at SHS and SHS CTC.

Adult, Infant, and Child CPR/AED/First Aid--Completed in the Education Program of Study within Early Childhood Educational Careers II Course.

AMSA Food Safety & Science Certification--Completed in the Agriculture Program of Study within the Advanced Food Science Course.

Autodesk Inventor Certified User—Completed in the STEM Program of Study within the Engineering Design II course.

Biotechnician Assistant Credentialing Exam (BACE)--Completed in the STEM Program of Study within the BioSTEM II course.

BASF Plant Science Certification—Completed in the Agriculture Program of Study within the Greenhouse Management course.

Basic Life Support (BLS)—Completed within the Health Science Program of Study within Medical Therapeutics, Nursing Education, or Medical Assisting courses depending on the school.

Beef Quality Assurance—Completed within the Agriculture Program of Study within the Large Animal Science Course.

Briggs and Stratton Service Technician—Completed in the Agriculture Program of Study within the Agriculture Power and Equipment or Principles of Agriculture Mechanics course.

Certified Clinical Medical Assistant-CCMA—Completed in the Health Science Program of Study within the Clinical Internship course.

Certified EKG Technician—Completed in the Health Science Program of Study within the Cardiovascular Services course.

Certified Patient Care Technician-CPCT—Completed in the Health Science Program of Study within the Clinical Internship Course (JBHS only)

Commercial Applicators Certification-C03 Ornamental and Turf—Completed in the Agricultural Program of Study within the Landscape and Turfgrass Management course.

Elanco Veterinary Medical Application Certification—Completed in the Agricultural Program of Study within the Veterinary Science course.

Employability Skills Certification—Completed as a senior based on requirements set forth by the district.

MOS Excel Associate Certification—Completed in the Business Management and Administration Program of Study within the Advanced Computer Applications course.

MOS Word Associate Certification—Completed in the Business Management and Administration Program of Study within the Advanced Computer Applications course.

Hub Spot Social Media Marketing—Completed with the Business Management and Administration & Marketing Management Program of Studies at the completion of Business Communications or Marketing Management I.

NC3 Snap-On Precision Measurement Instruments Certification—Completed in the Transportation Program of Study at the completion of Maintenance and Light Repair IV.

OSHA 10 General Industry—Obtained in the Agricultural, Architecture and Construction, or STEM Programs of Study within Principles of Agriculture Mechanics, Residential Construction I, or Engineering Design I.

ServeSafe Food Handler--Obtained in the Hospitality Program of Study within the Culinary Arts I course.

ServeSafe Manager Certification—Obtained in the Hospitality Program of Study within the Culinary Arts III course.

TECTA High School Equivalency Center-based Orientation Certificate--Obtained in the Education Program of Study upon completion of the Early Childhood and Educational Careers II course.

Tennessee ALL Corps Professional Learning Certificate—Obtained in the Education Program of Study within the Teaching as a Profession (TAP) II course.

Tennessee Forest Worker Certification—Obtained in the Agriculture Program of Study within the Agriscience course.

